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Produktinformation

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PPI-GIT1/β-Pix interaction-IN-1

Cat. No.: HY-152095

CAS No.: 2070916-70-8

Molecular Formula: $C_{23}H_{21}NO_5$

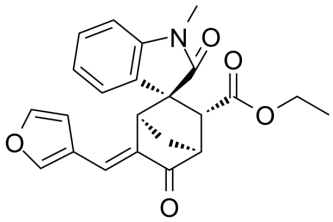
Molecular Weight: 391.42

Target: Ras

Pathway: GPCR/G Protein; MAPK/ERK Pathway

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (255.48 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5548 mL	12.7740 mL	25.5480 mL
	5 mM	0.5110 mL	2.5548 mL	5.1096 mL
	10 mM	0.2555 mL	1.2774 mL	2.5548 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (6.39 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PPI-GIT1/β-Pix interaction-IN-1 is a potent and orally active GIT1/β-Pix protein-protein interaction (PPI) inhibitor with a K_D value of 7.7 μM. PPI-GIT1/β-Pix interaction-IN-1 disrupts the GIT/PIX interaction can impact the activation of the downstream Rho GTPase Rac1 and Cdc42. PPI-GIT1/β-Pix interaction-IN-1 inhibits metastasis of gastric cancer[1].

In Vitro

PPI-GIT1/β-Pix interaction-IN-1 (compound 14-5-18; 0-50 μM) inhibits the interaction between GIT1 and β-Pix in living cells[1].

PPI-GIT1/β-Pix interaction-IN-1 (0-50 μM; 24 h; MGC803 cells and MKN45 cells) inhibits gastric cancer cell invasion in a dose-dependent manner and disrupts the GIT/PIX interaction can impact the activation of the downstream Rho GTPase Rac1 and Cdc42[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	MGC803 cells and MKN45 cells
Concentration:	0, 5, 20, and 50 μM
Incubation Time:	24 hours
Result:	Suppressed the expression of GTP-Rac1 and GTP-Cdc42 in a dose-dependent manner.

In Vivo

PPI-GIT1/β-Pix interaction-IN-1 (compound 14-5-18; 10 and 30 mg/kg; i.g.; 24 h) inhibits gastric cancer cell invasion in female nude mice with MGC803 xenografts[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Female nude mice with MGC803 xenografts (Four-week-old)[1]
Dosage:	10 and 30 mg/kg
Administration:	oral gavage, daily, for 18 days
Result:	Reduced the luminescence intensity in the lungs in a dose-dependent manner.

REFERENCES

[1]. Gu J, et, al. Construction of a synthetic methodology-based library and its application in identifying a GIT/PIX protein-protein interaction inhibitor. Nat Commun. 2022 Nov 23;13(1):7176.

[2]. Gu J, et, al. Construction of a synthetic methodology-based library and its application in identifying a GIT/PIX protein-protein interaction inhibitor. Nat Commun. 2022 Nov 23;13(1):7176.

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